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1 [Client-server computing in mobile environments](#)

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

 June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

2 [Information gathering in the World-Wide Web: the W3QL query language and the W3QS system](#)

David Konopnicki, Oded Shmueli

 December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available: pdf(1.36 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system


3 [Model-driven development of Web applications: the AutoWeb system](#)

09/451,446

h c g e c f c

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#)
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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Current technological impediments to business-to-consumer electronic commerce

Gregory Rose, Huoy Khoo, Detmar W. Straub

June 1999 **Communications of the AIS**


Full text available:  [pdf\(479.36 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

7 Measuring and characterizing end-to-end Internet service performance

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available:  [pdf\(1.46 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

8 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4Full text available:  pdf(5.33 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

9 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2Full text available:  pdf(213.89 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

10 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available:  pdf(524.80 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

11 Building a distributed full-text index for the webJuly 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3Full text available:  pdf(651.72 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction time. We also propose a storage scheme for creating and managing inverted files using an embedded database

system. We suggest and compare different strategies for collecting global statistics from distributed inverted indexes. Finally, we present pe ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

12 Annotation-based transcoding for nonvisual web access

Chieko Asakawa, Hironobu Takagi

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**


Full text available:  pdf(451.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: blind, commentary annotation, nonvisual web access, structural annotation, transcoding system

13 Microsoft TerraServer: a spatial data warehouse

Tom Barclay, Jim Gray, Don Slutz

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available:  pdf(410.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Microsoft® TerraServer stores aerial, satellite, and topographic images of the earth in a SQL database available via the Internet. It is the world's largest online atlas, combining eight terabytes of image data from the United States Geological Survey (USGS) and SPIN-2. Internet browsers provide intuitive spatial and text interfaces to the data. Users need no special hardware, software, or knowledge to locate and browse imagery. This paper describes how terabytes of "Internet unfrie ...

Keywords: VLDB, geo-spatial, image databases, internet

14 Applying an information gathering architecture to Netfind: a white pages tool for a changing and growing Internet

Michael F. Schwartz, Calton Pu


October 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 5

Full text available:  pdf(1.71 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

15 Best Paper: Early experiences with a 3D model search engine

Patrick Min, John A. Halderman, Michael Kazhdan, Thomas A. Funkhouser

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available:  pdf(1.92 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New acquisition and modeling tools make it easier to create 3D models, and affordable and powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find 3D models as it is to find, for example, text documents and images. What is needed is a "3D model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

Keywords: 3D model database, shape matching, shape query interfaces, specialized search engine

16 Managing images: Geographic location tags on digital images

Kentaro Toyama, Ron Logan, Asta Roseway

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available:  pdf(1.97 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and critically, location stamp. The location where a photo was shot is important because it says much about its semantic content, while being relatively easy to acquire, index, and search. The process of building, browsing, and writing applications for ...

Keywords: GIS, digital photography, geographic interfaces, image databases

17 Exploiting the non-determinism and asynchrony of set iterators to reduce aggregate file I/O latency

David C. Steere


October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(1.87 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Data integration and sharing II: Scientific data repositories: designing for a moving target

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**


Full text available:  pdf(739.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

19 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available:  pdf(6.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

20 Affinity-based management of main memory database clusters

Minwen Ji

November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Full text available:  pdf(553.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study management strategies for main memory database clusters that are interposed between Internet applications and back-end databases as content caches. The task of management is to allocate data across individual cache databases and to route queries to the appropriate databases for execution. The goal is to maximize effective cache capacity and to minimize synchronization cost. We propose an affinity-based management system for main memory database cLUsters (*ALBUM*). *ALBUM* executes ea ...

Keywords: Main memory database, clustering, database administration, database cluster, file organization, query affinity, scalability

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Tse Min Chen; Luo, R.C.;

 Industrial Electronics, Control and Instrumentation, 1997. IECON 97. 23rd International Conference on , Volume: 3 , 9-14 Nov. 1997
 Pages:1248 - 1253 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(512 KB\)\]](#) **IEEE CNF**
2 Remote supervisory control of an autonomous mobile robot via World Wide Web
Tse Min Chen; Ren C. Luo;
 Industrial Electronics, 1997. ISIE '97., Proceedings of the IEEE International Symposium on , Volume: 1 , 7-11 July 1997
 Pages:SS60 - SS64 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(592 KB\)\]](#) **IEEE CNF**
3 Using the WWW Test Pattern to check HTML client compliance
Berghe, H.;

 Computer , Volume: 28 , Issue: 9 , Sept. 1995
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4 Adoption issues of business-to-business Internet commerce in European SMEs
Scupola, A.;
 System Sciences, 2002. HICSS. Proceedings of the 35th Annual Hawaii International Conference on , 7-10 Jan. 2002
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5 Flexible Web document analysis for delivery to narrow-bandwidth devices

Penn, G.; Jianying Hu; Hengbin Luo; McDonald, R.;

Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference on , 10-13 Sept. 2001

Pages:1074 - 1078

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) [IEEE CNF](#)

6 Telecontrol of rapid prototyping machine via Internet for automated telemanufacturing

Luo, R.C.; Wei Zen Lee; Jyh Hwa Chou; Hou Tin Leong;

Robotics and Automation, 1999. Proceedings. 1999 IEEE International Conference on , Volume: 3 , 10-15 May 1999

Pages:2203 - 2208 vol.3

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7 Designing electronic shops, persuading consumers to buy

Dormann, C.;

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Pages:140 - 147 vol.2

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8 Class-based proxy server for mobile computers

Jongkuk Lee; Myungchul Kim; Hee Yong Youn; Hahm, Y.; Dongman Lee;

Parallel Processing, 2000. Proceedings. 2000 International Workshops on , 21 Aug. 2000

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9 Remote supervisory control of a sensor based mobile robot via Inte

Luo, R.C.; Tse Min Chen;

Intelligent Robots and Systems, 1997. IROS '97., Proceedings of the 1997 IEEE/RSJ International Conference on , Volume: 2 , 7-11 Sept. 1997

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10 World Wide Web access to real-time and historical data from the T array of moored buoys in the tropical Pacific Ocean: updates for 1996

Soreide, N.N.; McClurg, D.C.; Zhu, W.H.; McPhaden, M.J.; Denbo, D.W.; Ren M.W.;

OCEANS '96. MTS/IEEE. 'Prospects for the 21st Century'. Conference Proceedings , Volume: 3 , 23-26 Sept. 1996

Pages:1354 - 1359 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(1472 KB\)\]](#) IEEE CNF

11 Interdisciplinary Earth system science and Earth observations from International Space Station: partners in education

Willis, K.J.; Amsbury, D.L.; McLaughlin, C.D.; Miewald, T.;

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12 The development of Internet accessible rapid prototyping system

Luo, R.C.; Wei Zen Lee; Jyh Hwa Tzou; Hou Tin Leong;

Industrial Electronics Society, 1999. IECON '99 Proceedings. The 25th Annual Conference of the IEEE , Volume: 3 , 29 Nov.-3 Dec. 1999

Pages:1498 - 1503 vol.3

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Applications and the Internet, 2001. Proceedings. 2001 Symposium on , 8-12 2001

Pages:105 - 112

[\[Abstract\]](#) [\[PDF Full-Text \(776 KB\)\]](#) **IEEE CNF**
2 Development of remote learning system on mobile Internet*Li Zhang; ShiHuang Shao; Xianhui Zeng; Xiaohui Cai;*

Intelligent Control and Automation, 2002. Proceedings of the 4th World Cong on , Volume: 2 , 10-14 June 2002

Pages:1448 - 1451 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(329 KB\)\]](#) **IEEE CNF**
3 Improving category specific Web search by learning query modifica*Glover, E.J.; Flake, G.W.; Lawrence, S.; Birmingham, W.P.; Kruger, A.; Giles, Pennock, D.M.;*

Applications and the Internet, 2001. Proceedings. 2001 Symposium on , 8-12 2001

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